

ABSTRACT

The present invention relates to a demodulation device and a demodulation method, and its object is to demodulate subcarrier components utilizing estimated delay profiles to control the timing for performing a Fourier transform and the pass band of an interpolation filter used in interpolating transmission channel characteristics along a frequency axis so as to suppress unnecessary noise components, whereby an error rate after the demodulation is reduced. To achieve the object, in a demodulation device according to the present invention, a Fourier transform unit 1 performs a Fourier transform according to a timing signal and an interpolation filter unit 18 sets a pass band of a frequency interpolation filter used for interpolation along the frequency axis based on a signal corresponding to a maximum delay time, whereby the frequency band of a transmission channel characteristic corresponding to a subcarrier component is restricted when it is output.